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Sim

Click here to view these alignments graphically with the LALNVIEW program (mime-type chemically-ain2).

Click here to download LALNVIEW (Unix, Mac and PC versions available).
You can also have a look at a sample screen of LALNVIEW and access its documentation.

Results of SIM with:

Sequence 1: seq (448 residues) Sequence 2: seq (448 residues)

using the parameters:

Comparison matrix: BLOSUM62 Number of alignments computed: 20

Gap open penalty: 12 Gap extension penalty: 4



Evaluate the significance of this protein sequence similarity score using PRSS at EMBnet-CH.

76.6% ider	ntity in 445 residues overlap: Score: 1857.0: Gap frequency: 0.0%
seq	1 mmpetgpaglasqlkldahwmpytanrnfordprlivaaegnylvddhgrkifdalsgl
seq	1 MNOPLNVAPPVSSELNLRAHWMPFSANRNFOKDPRIIVAAEGSWLTDDKGRKVYDSLSGL
seq	61 WTCGAGHTRKEIADAVTROLSTLDYSPAFOFGHPLSFOLAEKIAELVPGNLNHVFYTNSG
seq	61 WTCGAGHSRKEIGEAVARQLGTLDYSPGFQYGHPLSFQLAEKIAGLLPGELNHVFFTGSG
seg	121 SECADTALKHVRAYWRLKGQATKTKIIGRARGYHGVNIAGTSLGGVNGNRKMFGQLLDVD
seq	121 SECADTSIKMARAYWRLKGOPOKTKLIGRARGYHGVNVAGTSLGGIGGNRKMFGOLMDVD
seq	181 Hlphtvlpvnafskglpeeggialademiklielhdasniaaviveplagsagvlpppkg
seq	181 HLPHTLOPGMAFTRGMAQTGGVELANELLKLIELHDASNIAAVIVEPMSGSAGVLVPPVG
seg	241 YLKRIREICTOHNILIFOEVITGFGRMGAMTGSEAFGVTPDLMCIAKQVTNGAIPMGAV
seq	241 YLORLREICDOHNILLIFDEVITAFGRLGTYSGAEYFGVTPDLMNVAKQVTNGAVPMGAV
seg	301 IASSEIYOTEMNOPTPEYAVEFEHGYTYSAHPVACAAGLAALDLLOKENLYOSAAELAPH
seq	301 IASSELYDTFMNOALPEHAVEFSHGYTYSAHPVACAAGLAALDILARDNLVQOSAELAPH

	*:	*****	**	* ***	***	***	****	raiwi, idakidisis
eq	161 F	eklihgvkgtkn	TÜDTRNYGI	AGAIOIA	ARDGD	NIVRP	YEAAMKLWKA	FYVRFGGDT
6 q	361 F	EKGLHGLQGAKN	VIDIRNCGI	LAGAIQIA	PROGDI	PTVRP	FEAGNKLWQQ	FYVRFGGDT
	•		****		****	***	rea wage in	******
eq		PGPTFNTKPOEL						
eq.	421. Q	PGPTENARPEEL	DRLFDAVG	EALN				
2.0% ide	ntity in	25 residues	overlap;	Score:	29.0;	Gap	frequency	#O.0
eq	315 T	PEYAVEFPHGYT	YSAHPVAC	AAGL				
eq.	92 T	LDYSPGEQYGHE	LSFOLAEK	IAGL				
.*	*		*	***				
3.1% ide	ntity in	26 residues	overlap;	Score:	27.07	Gàp	frequency:	0.08
roman say arguma				**			• ***	
peq	77.7	ielhdasniaav Idirnoglagai						
seq		*						•
	Change to bus		reacoust auto	M edical Control	26.01		frankrou	0.04
33.3% ide	ntity in	15 residues	overrab:	acore:	20.UJ	Och	rredinanch:	V - Q - 0
şeq		SECADTALKMVI						
	201 G	SECADTALKMVI VELANELLKLII						
seq seq 25.0% ide	201 G	VELANELLKLI	SLH.			Gap	·	0.0%
eq 25.0% ide	201 g	VETANELLKLII * * * * * * * * * * * * * * * * * *	overlap;	Score:	26.0;	Gap	·	0.0%
ieq 25.0% ide	201 g nesty in	VELANELLKLI	OVerlap;	Score:	26.0;	Gap	·	0.0%
ieq 25.0% ¥de	201 G ntity in 82 T 419 T	VETANETLKLTE 28 residues LDYSPAFQFGH	OVerlap;	Score:	26.0;	Gap	·	0.03
seq 25.0% ide seq	201 G	28 Tesidües LOYSPAFQPGHI LOPGPTPNARPI	overlap; plsfolaek eeldrifda	Score: IAELVPG VGEALNG	26.0;		frequency:	
seq 25.0% ide seq seq	201 G	Z8 Tesidues	overlap; plsfolaek eeldrifda	Score: IAELVPG VGEALNG	26.0;		frequency:	
seq 25.0% ide seq seq 36.4% ide	201 G ntity in 62 T 419 T	28 residues LDYSPAFQFGHI LOPGPTFNARPI	overlap; plsfolaek eeldrifda	Score: IAELVPG VGEALNG	26.0;		frequency:	
seq 25.0% ide seq seq 36.4% ide	201 G ntity in 62 T 419 T	28 Tesidues LDYSPAFQPGHI LOFGPTFNARPI	overlap; plsfolaek eeldrifda	Score: IAELVPG VGEALNG	26.0;		frequency:	
seq 25.0% ide seq seq 36.4% ide	201 G ntity in 62 T 419 T	28 residues LDYSPAFQFGHI LOPGPTFNARPI	overlap; plsfolaek eeldrifda	Score: IAELVPG VGEALNG	26.0;		frequency:	
seq 25.0% ide seq 36.4% ide seq	201 G ntity in 62 T 419 T intity in 400 Y	28 residues LDYSPAFQFGHI LOPGPTFNARPI	overlap; PLSFQLAEK EELDRLFDA overlap;	Score: IAELVPG VGEALNG Score:	26.0;	Gap	frequency:	D4.0%
seq 25.0% ide seq 36.4% ide seq seq 38.5% ide	ntity in 82 T 419 T intity in 400 Y 54 T	ZE TESTOUES LDYSPAFQFGHI LQFGPTFMARPI 11 residues EAAMKLWKAG LOSLSGLWTCG	overlap; pusfolaek eeldRufDA overlap; overlap;	Score: IAELVPG VGEALNG Score:	26.0;	Gap	frequency:	D4.0%
seq 25.0% ide seq 36.4% ide seq 38.5% ide	ntity in 419 T 419	ZE TESTOUES LOYSPAFQPGHI	overlap; overlap; overlap; overlap;	Score: IAELVPG VGEALNG Score:	26.0;	Gap	frequency:	D4.0%
seq 25.0% ide seq 36.4% ide seq 38.5% ide	ntity in 62 T 419 T 419 T 400 Y 54 Y	ZE TESTOUES LDYSPAFQFGHI LQFGPTFMARPI 11 residues EAAMKLWKAG LOSLSGLWTCG	overlap; overlap; overlap; overlap;	Score: IAELVPG VGEALNG Score:	26.0;	Gap	frequency:	D4.0%
seq 25.0% ide seq 36.4% ide seq 38.5% ide	ntity in 62 T 419 T 419 T 400 Y 54 Y	Z8 residues LDYSPAFQPGHI LOPGPTFNARPI 11 residues CEAAMKLWKAG COSLSGLWTCG 13 residues CRACKERS COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG	overlap; overlap; overlap; overlap;	Score: IAELVPG VGEALNG Score:	26.0;	Gap	frequency:	D4.0%
seq 25.0% ide seq 36.4% ide seq 38.5% ide seq	201 G ntity in 62 T 419 T 400 Y 54 Y	Z8 residues LDYSPAFQPGHI LOPGPTFNARPI 11 residues CEAAMKLWKAG COSLSGLWTCG 13 residues CRACKERS COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG COSLSGLWTCG	overlap; overlap; overlap; t	Score: IAELYPG VGEALNG Score: Score:	26.0; 26.0; 26.0;	Gap	frequency: frequency:	D: 0%
seq 25.0% ide seq 36.4% ide seq 38.5% ide	ntity in 62 T 419 T ALL ALL ALL ALL ALL ALL ALL A	ZE TESIDUES LOYSPAFQPGHI LOYSPA	overlap; overlap; overlap; coverlap;	Score: IAELYPG VGEALNG Score: Score:	26.0; 26.0; 26.0;	Gap	frequency: frequency:	D: 0%

http://www.expasy.ch/cgi-bin/sim.pl?prot

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```
30.4% identity in 23 residues overlap; Score: 25.0; Gap frequency: 0.0%
             242 LKRUREICTOHNILLIFDEVITG
sëq
             208 LIKLIELHDASNIAAVIVEPMSG
seq
50.0% identity in 10 residues overlap; Score: 25.0; Gap frequency: 0.0%
              99 LAEKTABLVP
860
             350 LVQQSAELAP
900
30.4% identity in 23 residues overlap: Score: 25.0: Gap frequency: 0,0%
             214 LHDASHTARVIVEPLAGSAGVLP
880
             368 LOGARNVIDIRNCGLAGATOIAP
seq
50.0% identity in 8 residues overlap: Score: 24.0; Gap frequency: 0.0%
               4 PETGPAGI
5.80
             227 PHSGSAGV
s'eq
62.5% identity in 8 residues overlap; Score: 24.0; Gap frequency: 0.08
              385 AIQIAARD
 seq.
             341 ALDILARD
 seq
 23.3% identity in 30 residues overlap; Score: 24.0; Gap frequency: 0.0%
               63 CGAGHTRKEIADAVTROLSTLDYSPAFOFG
 seq
              335 CAAGLAALDILARDNLVQQSAELAPHPEKG
 35.3% identity in 17 residues overlap; Score: 24.0; Gap frequency: 0.0%
              210 KLIELHDASNIAAVIVE
 seq
              244 RUREICDOHNILLIFDE
 pes
 50.0% identity in 8 residues overlap; Score: 23.0; Gap frequency: 0.0%
              325 GYTYSAHP
 360
              423 GPTFNARP
 469
```

http://www.expasy.ch/cgi-bin/sim.pl?prot

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100.0% identity in 4 residues overlap; Score: 23.0; Gap frequency: 0.0% 311 MNOP seq 1 MNQP seq 45.5% identity in 11 residues overlap; Score: 23.0; Gap frequency: 0:0% 218 SNIAAVIVEPL pes 229 SGSAGVLVPPV seq 50.0% identity in 8 residues overlap; Score: 23.0; Gap frequency: 0.0% 419 TLOFGPTF 82 TLDYSPGF 9**9**9 seq 60.0% identity in 5 residues overlap; Score: 23.0; Gap frequency: 0.0% 131 VRAYW 17 LRAHW seq ExPASy Home page Site Map

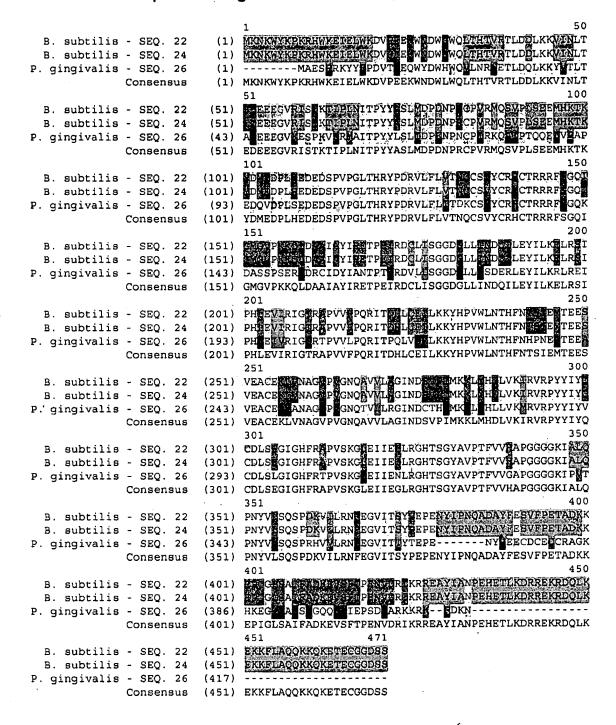
http://www.expasy.ch/cgi-bin/sim.pl?prot.

3/12/2009

Sequence Alignment and Identity Table GenBank: AAG06957 and GenBank: AAA25891

		1 50
AAA25891	(1)	1 50 MSVPVRHLIAGAFVEGLGAQRIPVSNPLDNSTLAEIACASAEQVEQAVAS
AAG06957	(1)	THE PERSON ASSESSMENT OF THE PROPERTY OF THE PERSON ASSESSMENT OF THE P
Consensus	(1)	
	, -,	51 100
AAA25891	(51)	ARETFASWKETPVSERARVMLRYQALLKEHHDELAKIVSSELGKTFEDAK
AAG06957	(1)	
Consensus	(51)	
		101 150
AAA25891	(101)	GDVWRGIEVVEHACNVPSLLMGETVENVARNIDTYSITQPLGVCVGITPF
AAG06957	(1)	
Consensus	(101)	
		151 200
AAA25891	(151)	NFPAMIPLWMFPLAIACGNAFILKPSEQVPLTSVRLAELFLEAGAPK VL
AAG06957	(1)	FL FL
Consensus	(151)	A L
		250
AAA25891		Q VHGGKEQVD LLKHPQVKAVSF GSVAVGQYVYHT T HNKR QSFAG
AAG06957	(8)	
Consensus	(201)	L G NLLK V L AV V A A LQ G
		231
AAA25891		AKNHEV PD DKAQVISNLVG S AA Q C AISV V VGAAREW PE
AAG06957	(58)	
Consensus	(251)	A I ILPA I ALA AKLI AI IE 301 350
********	(201)	301
AAA25891	(301)	
AAG06957 Consensus	(108) (301)	A A A AG V P R I M
Consensus	(301)	351 400
AAA25891	(344)	AQLLLDGR YKVEGYPDGNW GPT F GVRPDMAIY EEFFGPÜLCLAEV
AAG06957	(158)	
Consensus	(351)	DAV LGLA KL VL
	•	401 450
AAA25891	(394)	DSLEQAIRLINESP GNGTSIFT SG AARTFQHHEEVGQAG N PIPVP
AAG06957	(208)	QSSGGNWALNLYNP PGVMPQAP SN YAGGFQVR MNKD G A ANAQA
Consensus	(401)	S L PW AS A A FQ I LGII
		451 500
AAA25891		PFFFFTGWK SFYGDLHAYK-QGRFY ETKTVT WFDSDSVAGT
AAG06957	(258)	-
Consensus	(451)	L S G A LHA A GL F S K AK
		501
AAA25891		
AAG06957	(299)	
Consensus	(501)	
	1	AAA25891 AAG06957
		AAA23631
AAA25891		14
2200055		
AAG06957	Age .	
'	1	

Sequence Alignment: alanine 2,3-aminomutase



	B. subtilis – SEQ. 22	B. subtilis - SEQ. 24	P. gingivalis – SEQ. 26
B. subtilis - SEQ. 22		100	. 59
B. subtilis – SEQ. 24			59
P. gingivalis – SEQ. 26			